

What is claimed is:

1. A tuning fork type crystal unit comprising:  
a base; and  
a pair of arms extending from respective ends of said base in a  
crystallographic Y direction of quartz crystal;

5 each of said arms comprising a first crystal member and a second crystal  
member which extend in said crystallographic Y direction, said first crystal  
member and said second crystal member being joined to each other in a  
crystallographic YZ plane by a direct bonding such that said first crystal  
member and said second crystal member have respective crystallographic X  
10 directions oriented away from each other and extending parallel to each other.

2. The crystal unit according to claim 1, wherein each of said arms has  
excitation electrodes disposed respectively on a pair of exposed surfaces  
thereof which lie in said crystallographic YZ plane.

3. The crystal unit according to claim 1, wherein said base comprises a  
third crystal member, said arms and said third crystal member being joined to  
each other by a direct bonding.

4. The crystal unit according to claim 1, wherein said direct bonding  
comprises a siloxane bond by which said first crystal member and said second  
crystal member are joined to each other.

5. The crystal unit according to claim 2, wherein said excitation



electrodes are wired to cause said arms to produce tuning fork vibrations.

6. A bar type crystal unit extending in a crystallographic Y direction of quartz crystal, comprising a first crystal member and a second crystal member which extend in said crystallographic Y direction, said first crystal member and said second crystal member being joined to each other in a crystallographic YZ  
5 plane by a direct bonding such that said first crystal member and said second crystal member have respective crystallographic X directions oriented away from each other and extending parallel to each other.

7. The crystal unit according to claim 6, further comprising excitation electrodes disposed respectively on a pair of exposed surfaces of said first crystal member and said second crystal member which lie in said crystallographic YZ plane.

8. The crystal unit according to claim 6, wherein said direct bonding comprises a siloxane bond by which said first crystal member and said second crystal member are joined to each other.